	Application No.	Applicant(s)
Al-C CAU 1974	09/939,294	DING ET AL.
Notice of Allowability	Examiner	Art Unit
	Sandra M. Nolan	1772
The MAILING DATE of this communication appear claims being allowable, PROSECUTION ON THE MERITS IS (or rewith (or previously mailed), a Notice of Allowance (PTOL-85) or PTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICE the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	pplication. If not included not will be mailed in due course. THIS
This communication is responsive to the response dated 26	October 2004.	
The allowed claim(s) is/are <u>1-3,7-34, 37-85 and 91-95</u> .		
$\overline{m{X}}$ The drawings filed on $\underline{\it{8hi/o}}$ are accepted by the Examiner.		
 Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
opplicant has THREE MONTHS FROM THE "MAILING DATE" of oted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives		
CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review (PTO Amendment / Comment or in the	Office action of ings in the front (not the back) of
□ DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
tachment(s)		
□ Notice of References Cited (PTO-892)		Patent Application (PTO-152)
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summar Paper No./Mail Da	ate <u>20050104</u> .
	3), 7. 🖾 Examiner's Amend	ment/Comment
Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	
S.M. Nola-Rayford SANDRAM. NOLAN - PERYCURED PRIMARY EXAMINER		

S. Patent and Trademark Office FOL-37 (Rev. 1-04) Application/Control Number: 09/939,294 Page 2

Art Unit: 1772

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert Barrett (312/807-4204) on 04 January 2005.
- 3. The application has been amended as follows:

In the Claims

Claims 35-36 and 86-90 are cancelled and their captions have been changed from "(withdrawn)" to -- (canceled) --.

In line 1 of each of claims 17-34, 37-85 and 91-95, the expression "(withdrawn)" has been deleted and replaced with – (previously presented) --.

Remarks 1 4 1

Non-elected pending claims covering the blends of the invention have been rejoined with claims 7-12. Non-elected pending claims covering embodiments that do not call for blends have been cancelled.

The captioning of the rejoined claims has been revised to comport with current USPTO practice.

Reasons for Allowance

Withdrawal of Rejections

4. The following is an examiner's statement of reasons for allowance:

Art Unit: 1772

5. All of the prior art rejections set out in the 20 July 2004 office action are withdrawn in view of the arguments presented on page 12 of the 26 October 2004 response.

Summary of Base Claims

6. The base claims are claims 1, 17, 25, 33, 37, 53, 69, 70 and 83. They can be summarized as follows:

<u>Claim 1</u> covers a polymer blend useful for making medical products comprising:

- -1 to 99% of a first low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature, and
- -1 to 99% of a second syndiotactic 1,2-polybutadiene having a melting temperature higher than that of the first syndiotactic 1,2-polybutadiene.

Claim 17 covers a tubing having a sidewall made of a blend comprising:

- -1 to 99% of a first 1,2-polybutadiene having a first melting temperature, and
- -1 to 99% of a second 1,2-polybutadiene having a melting temperature higher than that of the first syndiotactic 1,2-polybutadiene

<u>Claim 25</u> covers a tubing having a sidewall made of the blend recited in claim 1, which tubing is exposed to sterilizing radiation.

Claim 33 covers tubing for use with an infusion pump made of the blend recited in claim 1, which tubing is exposed to sterilizing radiation.

Claim 37 covers multiple layered tubing comprising:

-a first layer of the blend recited in claim 17, and

Art Unit: 1772

-a second layer of a polymeric material disposed concentrically with respect to the first layer.

Claim 53 covers a multiple layered tubing comprising:

- (a) a first layer of a blend of:
- -1 to 99% of a first low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature below about 90 degrees C, and
- -1 to 99% of a second syndiotactic 1,2-polybutadiene having a melting temperature higher than about 91 degrees C.
- (b) a second layer of a polymeric material disposed concentrically with respect to the first layer.

Claim 69 covers a multiple layered tubing comprising:

- (a) a first layer of a blend of:
- -1 to 99% of a first low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature below about 90 degrees C, and
- -1 to 99% of a second syndiotactic 1,2-polybutadiene having a melting temperature higher than about 91 degrees C.
- (b) a second layer of a polymeric material disposed concentrically with respect to the first layer,

wherein the tubing has been exposed to sterilizing radiation.

<u>Claim 70</u> covers a multiple layered tubing comprising:

(a) a first layer of a blend of:

Art Unit: 1772

-1 to 99% of a first low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature below about 90 degrees C, and

- -1 to 99% of a second syndiotactic 1,2-polybutadiene having a melting temperature higher than about 91 degrees C.
- (b) a second layer of a polymeric material disposed concentrically with respect to the first layer,

wherein the tubing has been exposed to sterilizing radiation.

Claim 83 covers a multiple layered tubing comprising:

- (a) a first layer of a blend of:
- -1 to 99% of a first low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature below about 90 degrees C, and
- -1 to 99% of a second syndiotactic 1,2-polybutadiene having a melting higher than about 91 degrees C.:
- (b) a second layer of a polymeric material disposed concentrically with respect to the first layer and attached thereto, which second layer is a blend comprising:
- -1 to 99% of a third low crystallinity syndiotactic 1,2-polybutadiene having a first melting temperature below about 90 degrees C, and
- -1 to 99% of a fourth 1,2-polybutadiene having a melting higher than about 91 degrees C.,

wherein the tubing has been exposed to sterilizing radiation.

None of the available prior art teaches or suggests medical products/tubing made from blends of 1,2-polymerized butadienes, which blended polymers meet the melting

Art Unit: 1772

temperature requirements recited in claims 1, 17, 25, 37, 53, 69, 70 and 83. The claimed 1,2-isomers are distinguished from 1,3- and 1,4-isomers at page 4, lines 28-30 of applicants' the specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication should be addressed to Sandra M. Nolan-Rayford, at telephone number 571/272-1495. She can normally be reached Monday through Thursday, from 6:30 am to 4:00 pm, Eastern Time.

If attempts to reach the examiner are unsuccessful, her supervisor, Harold Pyon, can be reached at 571/272-1498.

The fax number for patent application documents is 703/872-9306.

S.M. Nelm-Royford S.M. Nolan-Rayford

Primary Examiner

Technology Center 1700

09939294(20050104)

SANDRA M. NOLAN -PRAYFORI)
PRIMARY EXAMINER